



U.S. Department of Commerce, Patent and Trademark Office					Docket No.		Serial No.	
(PTO Form 1449 modified)					5625/D01/JB		10/731,651	
SUPPLEMENTAL LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant		Confirmation No.:	
					Lu, et al.		Unknown	
(Use several sheets if necessary)					Filing Date		Group	
Examiner Unknown					December 9, 2003		Unknown	
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A1	4,813,846	03/21/89	Helms	414	744.1	04/29/87	
	A2	4,917,556	04/17/90	Stark et al.	414	217	05/26/89	
	A3	4,951,601	08/28/90	Maydan, et al.	118	719	06/23/89	
	A4	5,000,113	03/19/91	Wang et al.	118	723	12/19/86	
	A5	5,028,565	07/02/1991	Chang, et al.	437	192	08/25/1989	
	A6	5,173,474	12/22/1992	Connell, et al.	505	1	03/11/1991	
	A7	5,186,718	02/16/93	Tepman et al.	29	25.01	04/15/91	
	A8	5,205,077	04/27/93	Wittstock	51	165 R	08/28/91	
	A9	5,234,561	08/10/93	Randhawa et al.	204	192.38	08/25/88	
	A10	5,259,881	11/09/93	Edwards, et al.	118	719	05/17/91	
	A11	5,286,296	02/15/94	Sato et al.	118	719	01/09/92	
	A12	5,580,380	12/03/1996	Liu, et al.	117	86	01/30/1995	
	A13	5,609,689	03/11/97	Kato et al.	118	719	06/03/96	
	A14	5,667,592	09/16/97	Boitnott et al.	118	719	04/16/96	
	A15	5,674,786	10/07/97	Turner et al.	437	225	06/05/95	
	A16	5,695,564	12/09/97	Imahashi	118	719	08/03/95	
	A17	5,730,801	03/24/98	Tepman et al.	118	719	08/23/94	
	A18	5,788,447	08/04/98	Yonemitsu et al.	414	217	08/05/96	
	A19	5,788,799	08/04/98	Steger, et al.	156	345	06/11/96	
	A20	5,801,634	09/01/98	Young et al.	340	635	09/08/97	
	A21	5,856,219	01/05/99	Naito et al.	438	241	08/18/97	
	A22	5,866,213	02/02/99	Foster et al.	427	573	07/19/97	
	A23	5,866,795	02/02/99	Wang et al.	73	1.36	03/17/97	
	A24	5,882,165	03/16/99	Maydan et al.	414	217	09/10/97	
	A25	5,882,413	03/16/99	Beaulieu et al.	118	719	07/11/97	
	A26	5,928,389	07/27/99	Jevtic	29	25.01	10/21/96	
Examiner					Date Considered 11/20/06			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609/Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

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U.S. Patent Documents

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	A27	6,051,286	04/18/00	Zhao et al.	427	576	08/22/97
	A28	6,062,798	05/16/00	Muka	414	416	06/13/96
	A29	6,071,808	06/06/00	Merchant et al.	438	633	06/23/99
	A30	6,084,302	07/04/00	Sandhu	257	751	12/26/95
	A31	6,086,677	07/11/00	Umotoy et al.	118	715	06/16/98
	A32	6,110,556	08/29/00	Bang, et al.	428	64.1	10/17/97
	A33	6,117,244	09/12/00	Bang, et al.	118	715	03/24/98
	A34	6,140,237	10/31/00	Chan et al.	438	687	04/19/99
	A35	6,140,238	10/31/00	Kitch	438	687	04/21/99
	A36	6,143,659	11/07/00	Leem	438	688	08/27/98
	A37	6,144,060	11/07/00	Park et al.	257	310	07/31/98
	A38	6,158,446	12/12/00	Mohindra et al.	134	25.4	09/04/98
	A39	6,206,967	03/27/01	Mak, et al.	118	666	06/14/00
	A40	6,271,148	08/07/01	Kao et al.	438	727	10/13/99
	A41	2001/0041250	11/15/01	Werkhoven et al.	428	212	03/06/01

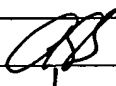
Examiner

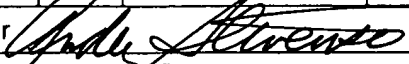
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Examiner Unknown			

Foreign Patent Documents

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Examiner <i>Andrew Evans</i>					Date Considered <i>11/20/06</i>			
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

U.S. Department of Commerce, Patent and Trademark Office					Docket No.		Serial No.	
(PTO Form 1449 modified)					5625/D01/JB		10/731,651	
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					Lu, et al.		Unknown	
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Examiner <i>John Twente</i>					Date Considered <i>11/29/06</i>			
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U.S. Department of Commerce, Patent and Trademark Office		Docket No.	Serial No.
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		Lu, et al.	Unknown
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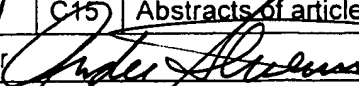
Foreign Patent Documents

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Examiner

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		Lu, et al.	Unknown
(Use several sheets if necessary)		Filing Date	Group
Examiner Unknown		March 7, 2001	Unknown
OTHER ART			
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.	
	C1	Ohba, et al., "Thermal Decomposition of Methylhydrazine and Deposition Properties of CVD TiN Thin Films", Conference Proceedings, Advanced Metallization for ULSI Applications in 1993 (1994), pp. 143-149	
	C2	Scheper, et al., "Low-temperature deposition of titanium nitride films from dialkylhydrazine-based precursors", Materials Science in Semiconductor Processing 2 (1999), pp. 149-157	
	C3	Suzuki, et al., "A 0.2- μ m contact filing by 450°C-hydrazine-reduced TiN film with low resistivity", IEDM 92-979, pp. 11.8.1 – 11.8.3	
	C4	Suzuki, et al., "LPCVD-TiN Using Hydrazine and TiCl ₄ ", VMIC Conference (June 8-9, 1993), pp. 418-423	
	C5	IBM Tech. Disc. Bull. "Knowledge-Based Dynamic Scheduler in Distributed Computer Control, (June 1990), pp. 80-84	
	C6	IBM Tech. Disc. Bull. "Multiprocessor and Multitasking Architecture for Tool Control of the Advanced via Inspection Tools" (May 1992), pp. 190-191	
	C7	McGeachin, S., "Synthesis and properties of some β -diketimines derived from acetylacetone, and their metal complexes", Canadian J. of Chemistry, Vol. 46 (1968), pp. 1903-1912	
	C8	Solanki, et al., "Atomic Layer deposition of Copper Seed Layers", Electrochemical and Solid State Letters, 3(10) (2000), pp. 479-480	
	C9	NERAC.COM Retro Search: Atomic Layer Deposition of Copper, dated October 11, 2001	
	C10	NERAC.COM Retro Search: Atomic Layer Deposition / Epitaxy Aluminum Oxide Plasma, dated October 2, 2001	
	C11	NERAC Search abstract of "Atomic Layer deposition of Ta and Ti for Interconnect Diffusion Barriers", by Rosnagel, et al., J. Vac. Sci. & Tech., 18(4) (July 2000)	
	C12	Abstracts of articles re atomic layer deposition	
	C13	Abstracts of search results re atomic layer deposition, search dated January 24, 2002	
	C14	Abstracts of articles re atomic layer deposition and atomic layer nucleation	
	C15	Abstracts of articles re atomic layer deposition and semiconductors and copper	
Examiner			Date Considered 11/20/06
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		Lu, et al.	Unknown
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Examiner Unknown		December 9, 2003	Unknown
OTHER ART			
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AS	C16	Abstracts of articles – atomic layer deposition	
	C17	NERAC Search – Atomic Layer Deposition, search dated October 16, 2001	
	C18	Bader, et al., "Integrated Processing Equipment", Solid State Technology, Cowan Pub., Vol. 33, No. 5 (May 1, 1990), pp. 149-154	
	C19	Choi, et al., "The effect of annealing on resistivity of low pressure chemical vapor deposited titanium diboride", J. Appl. Phys. 69(11) (June 1, 1991), pp. 7853-7861	
	C20	Choi, et al., "Stability of TiB ₂ as a Diffusion Barrier on Silicon", J. Electrochem. Soc. 138(10) (October 1991), pp. 3062-3067	
	C21	"Cluster Tools for Fabrication of Advanced devices" Jap. J. of Applied Physics, Extended Abstracts, 22 nd Conference Solid State Devices and Materials (1990), pp. 849 – 852 XP000178141 (ARTICLE ON ORDER – TO BE PROVIDED)	
	C22	"Applications of Integrated processing", Solid State Technology, US, Cowan Pub., Vol 37, No. 12 (December 1, 1994), pp. 45-47	
	C23	Kitigawa, et al., "Hydrogen-mediated low temperature epitaxy of Si in plasma-enhanced chemical vapor deposition", Applied Surface Science (2000), pp. 30-34 (ARTICLE ON ORDER – TO BE PROVIDED)	
	C24	Lee, et al., "Pulsed nucleation for ultra-high aspect ratio tungsten plugfill", Novellus Systems, Inc. (2001), pp. 1-2 (ARTICLE ON ORDER – TO BE PROVIDED)	
Examiner <i>Chad H. Brown</i>		Date Considered <i>11/20/06</i>	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.			

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. 5625/D01/JB		Serial No. 10/731,651	
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U.S. Patent Documents								
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	A1	4,058,430	11/15/77	Suntola et al.	156	611	11/25/1975	
	A2	4,389,973	06/28/83	Suntola et al.	118	725	12/11/1981	
	A3	4,413,022	11/01/83	Suntola et al.	427	255.2	06/21/1979	
	A4	4,486,487	12/04/84	Skarp	428	216	04/25/1983	
	A5	4,767,494	08/30/88	Kobayashi et al.	156	606	09/19/1986	
	A6	4,806,321	02/21/89	Nishizawa et al.	422	245	07/21/1985	
	A7	4,829,022	05/09/89	Kobayashi et al.	437	107	12/09/1986	
	A8	4,834,831	05/30/89	Nishizawa et al.	156	611	09/04/1987	
	A9	4,838,983	06/13/89	Schumaker et al.	156	613	03/18/1988	
	A10	4,838,993	06/13/89	Aoki et al.	156	643	12/03/1987	
	A11	4,840,921	06/20/89	Matsumoto	437	89	06/30/1988	
	A12	4,845,049	07/04/89	Sunakawa	437	81	03/28/1988	
	A13	4,859,625	08/22/89	Nishizawa et al.	437	81	11/20/1987	
Foreign Patent Documents								
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OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
	C1	Hultman, et al., "Review of the thermal and mechanical stability of TiN-based thin films", <i>Zeitschrift Fur Metallkunde</i> , 90(10) (Oct. 1999), pp. 803-813.						
	C2	Klaus, et al., "Atomic Layer Deposition of SiO ₂ Using Catalyzed and Uncatalyzed Self-Limiting Surface Reactions", <i>Surface Review & Letters</i> , 6(3&4) (1999), pp. 435-448.						
Examiner					Date Considered 11/20/06			
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U.S. Patent Documents								
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	A14	4,859,627	08/22/89	Sunakawa	437	81	07/01/1988	
	A15	4,861,417	08/29/89	Mochizuki et al.	156	610	03/24/1988	
	A16	4,876,218	10/24/89	Pessa et al.	437	107	09/26/1988	
	A17	4,927,670	05/22/1990	Erbil	427	255.3	06/22/1988	
	A18	4,931,132	06/05/90	Aspnes et al.	156	601	10/07/1988	
	A19	4,960,720	10/02/90	Shimbo	437	105	08/24/1987	
	A20	4,975,252	12/04/90	Nishizawa et al.	422	245	05/26/1989	
	A21	4,993,357	02/19/91	Scholz	118	715	12/21/1989	
	A22	5,013,683	05/07/91	Petroff et al.	437	110	01/23/1989	
	A23	5,082,798	01/21/92	Arimoto	437	108	09/27/1990	
	A24	5,085,885	02/04/92	Foley et al.	477	38	09/10/1990	
	A25	5,091,320	02/25/92	Aspnes et al.	437	8	06/15/1990	
	A26	5,130,269	07/14/92	Kitahara et al.	437	111	04/25/1989	
A27	5,166,092	11/24/92	Mochizuki et al.	437	105	10/30/1990		
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OTHER ART								
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	C3	Yamaguchi, et al., "Atomic-layer chemical-vapor-deposition of silicon dioxide films with extremely low hydrogen content", <i>Appl. Surf. Sci.</i> , Vol. 130-132 (1998), pp. 202-207.						
	C4	George, et al., "Surface Chemistry for Atomic Layer Growth", <i>J. Phys. Chem.</i> , Vol. 100 (1996), pp. 13121-131.						
Examiner					Date Considered 11/29/04			
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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. 5625/D01/JB		Serial No. 10/731,651	
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U.S. Patent Documents								
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	A29	5,246,536	09/21/93	Nishizawa et al.	156	610	03/10/1989	
	A30	5,250,148	10/05/93	Nishizawa et al.	156	611	11/12/1991	
	A31	5,254,207	10/19/93	Nishizawa et al.	156	601	11/30/1992	
	A32	5,256,244	10/26/93	Ackerman	156	613	02/10/1992	
	A33	5,270,247	12/14/93	Sakuma et al.	437	133	07/08/1992	
	A34	5,278,435	01/11/94	Van Hove et al.	257	184	06/08/1992	
	A35	5,281,274	01/25/94	Yoder	118	697	02/04/1993	
	A36	5,290,748	03/01/94	Knuuttila et al.	502	228	07/16/1992	
	A37	5,294,286	03/15/94	Nishizawa et al.	156	610	01/12/1993	
	A38	5,296,403	03/22/94	Nishizawa et al.	437	133	10/23/1992	
	A39	5,300,186	04/05/94	Kitahara et al.	156	613	04/07/1992	
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OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
AS	C5	George, et al., "Atomic layer controlled deposition of SiO ₂ and Al ₂ O ₃ using ABAB... binary reaction sequence chemistry", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 460-467.						
AS	C6	Wise, et al., "Diethyldiethoxysilane as a new precursor for SiO ₂ growth on silicon", <i>Mat. Res. Soc. Symp. Proc.</i> Vol. 334 (1994), pp. 37-43.						
Examiner <i>Phillip J. Stevenson</i>					Date Considered <i>11/20/06</i>			
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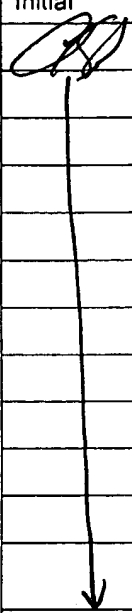
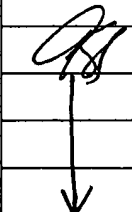
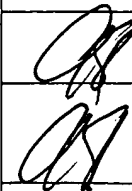
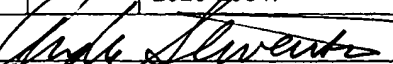
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LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant Lu, et al.			
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U.S. Patent Documents								
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	A41	5,316,615	05/31/94	Copel	117	95	03/09/1993	
	A42	5,316,793	05/31/94	Wallace et al.	427	248.1	07/27/1992	
	A43	5,330,610	07/19/94	Eres et al.	117	86	05/28/1993	
	A44	5,336,324	08/09/94	Stall et al.	118	719	12/04/1991	
	A45	5,338,389	08/16/94	Nishizawa et al.	117	89	04/21/1993	
	A46	5,348,911	09/20/94	Jurgensen et al.	117	91	04/26/1993	
	A47	5,374,570	12/20/94	Nasu et al.	437	40	08/19/1993	
	A48	5,395,791	03/07/95	Cheng et al.	437	105	10/20/1993	
	A49	5,438,952	08/08/1995	Otsuka	117	84	01/31/1994	
	A50	5,439,876	08/08/95	Graf et al.	505	447	08/16/1993	
	A51	5,441,703	08/15/95	Jurgensen	422	129	03/29/1994	
	A52	5,443,033	08/22/95	Nishizawa et al.	117	86	03/11/1994	
	A53	5,443,647	08/22/95	Aucoin et al.	118	723 ME	07/11/1994	
	A54	5,455,072	10/03/95	Bension et al.	427	255.7	11/18/1992	
Foreign Patent Documents								
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	B13	00/54320 A1	09/14/2000	WO	H01L	21/44		X
	B14	00/16377 A2	03/23/2000	WO	H01L	---		X
	B15	00/15881 A2	03/23/2000	WO	C30B	---		X
	B16	00/15865 A1	03/23/2000	WO	C23C	16/00		X
OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
	C7	Niinisto, et al., "Synthesis of oxide thin films and overlayers by atomic layer epitaxy for advanced applications" <i>Mat. Sci. & Eng.</i> , Vol. B41 (1996), pp. 23-29.						
	Examiner					Date Considered 11/29/06		
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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. 5625/D01/JB		Serial No. 10/731,651	
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT					Applicant Lu, et al.			
(Use several sheets if necessary)					Filing Date December 9, 2003		Group Unknown	
Examiner Unknown								
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A55	5,458,084	10/17/95	Thorne et al.	117	89	12/09/1993	
	A56	5,469,806	11/28/95	Mochizuki et al.	117	97	08/20/1993	
	A57	5,480,818	01/02/96	Matsumoto et al.	437	40	02/09/1993	
	A58	5,483,919	01/16/96	Yokoyama et al.	117	89	08/17/1994	
	A59	5,484,664	01/16/96	Kitahara et al.	428	641	01/21/1994	
	A60	5,503,875	04/02/96	Imai et al.	427	255.3	03/17/1994	
	A61	5,521,126	05/28/96	Okamura et al.	437	235	06/22/1994	
	A62	5,527,733	06/18/96	Nishizawa et al.	437	160	02/18/1994	
	A63	5,532,511	07/02/96	Nishizawa et al.	257	627	03/23/1995	
	A64	5,540,783	07/30/96	Eres et al.	118	725	05/26/1994	
	A65	5,601,651	02/11/97	Watabe	118	715	12/14/1994	
	A66	5,616,181	04/01/97	Yamamoto et al.	118	723 ER	11/21/1995	
	A67	5,637,530	06/10/97	Gaines et al.	114	105	06/10/1996	
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
	B17	99/41423 A2	08/19/1999	WO	C23C	---	<input checked="" type="checkbox"/>	X
	B18	99/29924 A1	06/17/1999	WO	C23C	16/04	<input checked="" type="checkbox"/>	X
	B19	99/01595	01/14/1999	WO	C30B	25/14	<input checked="" type="checkbox"/>	X
	B20	96/18756 A1	06/20/1996	WO	C23C	16/08	<input checked="" type="checkbox"/>	X
OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
	C8	Ritála, et al., "Perfectly conformal TiN and Al ₂ O ₃ films deposited by atomic layer deposition", <i>Chemical Vapor Deposition</i> , Vol. 5(1) (January 1999), pp. 7-9.						
	C9	Klaus, et al., "Atomically controlled growth of tungsten and tungsten nitride using sequential surface reactions", <i>Appl. Surf. Sci.</i> , Vol 162-163 (2000), pp. 479-491.						
Examiner					Date Considered 7/20/06			
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Examiner Unknown								
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
AS	A68	5,641,984	06/24/97	Aftergut et al.	257	433	08/19/1994	
	A69	5,644,128	07/01/97	Wollnik et al.	250	251	08/25/1994	
	A70	5,693,139	12/02/97	Nishizawa et al.	117	89	06/15/1993	
	A71	5,705,224	01/06/98	Murota et al.	427	248.1	01/31/1995	
	A72	5,707,880	01/13/98	Aftergut et al.	437	3	01/17/1997	
	A73	5,711,811	01/27/98	Suntola et al.	118	711	11/28/1995	
	A74	5,730,802	03/24/98	Ishizumi et al.	118	719	12/27/1996	
	A75	5,747,113	05/05/98	Tsai	427	255.5	07/29/1996	
	A76	5,749,974	05/12/98	Habuka et al.	118	725	07/13/1995	
	A77	5,796,116	08/18/98	Nakata et al.	257	66	07/25/1995	
	A78	5,807,792	09/15/98	Ilg et al.	438	758	12/18/1996	
	A79	5,830,270	11/03/98	McKee et al.	117	106	08/05/1996	
	A80	5,835,677	11/10/98	Li et al.	392	401	10/03/1996	
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
AS	B21	96/17107 A1	06/06/1996	WO	C23C	16/44	<input checked="" type="checkbox"/>	X
	B22	93/02111 A1	02/04/1993	WO	C08F	4/78	<input checked="" type="checkbox"/>	X
	B23	91/10510 A1	07/25/1991	WO	B01J	37/02	<input checked="" type="checkbox"/>	X
	B24	0 799 641 A2	10/08/1997	EP	B01J	20/32	<input checked="" type="checkbox"/>	X
OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
AS	C10	Min, et al., "Atomic layer deposition of TiN thin films by sequential introduction of Ti precursor and NH/sub3", Symp.: <i>Advanced Interconnects and Contact Materials and Processes for Future Integrated Circuits</i> (Apr. 13-16, 1998), pp. 337-342.						
Examiner <i>Paul J. H. [Signature]</i>					Date Considered <i>2/2/06</i>			
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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. 5625/D01/JB		Serial No. 10/731,651	
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Examiner Unknown								
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A81	5,851,849	12/22/98	Comizzoli et al.	438	38	05/22/1997	
	A82	5,855,675	01/05/99	Doering et al.	118	719	03/03/1997	
	A83	5,855,680	01/05/99	Soininen et al.	118	719	11/28/1995	
	A84	5,858,102	01/12/99	Tsai	118	719	02/14/1998	
	A85	5,879,459	03/09/99	Gadgil et al.	118	715	08/29/1997	
	A86	5,904,565	05/18/1999	Nguyen, et al.	438	687	07/17/1997	
	A87	5,916,365	06/29/99	Sherman	117	92	08/16/1996	
	A88	5,923,056	07/13/99	Lee et al.	257	192	03/12/1998	
	A89	5,923,985	07/13/99	Aoki et al.	438	301	01/14/1997	
	A90	5,925,574	07/20/99	Aoki et al.	437	31	04/10/1992	
	A91	5,942,040	08/24/99	Kim et al.	118	726	08/27/1997	
	A92	5,947,710	09/07/1999	Cooper, et al.	418	63	06/16/1997	
	A93	5,972,430	10/26/99	DiMeo, Jr. et al.	427	255.32	11/26/1997	
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
	B25	0 442 490 A1	08/21/1991	EP	C30B	25/02	<input checked="" type="checkbox"/>	X
	B26	0 344 352 A1	12/06/1989	EP	H01L	39/24	<input checked="" type="checkbox"/>	X
	B27	62-091495 A	04/25/1987	JP	C30B	25/02	<input checked="" type="checkbox"/>	X
OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
	C11	Klaus, et al., "Atomic Layer Deposition of Tungsten using Sequential Surface Chemistry with a Sacrificial Stripping Reaction," Thin Solid Films 360 (2000), Pages 145 - 153, (Accepted Nov. 16, 1999).						
	C12	Min, et al., "Metal-Organic Atomic-Layer Deposition of Titanium-Silicon-Nitride Films", Applied Physics Letters, American Inst. Of Physics, Vol 75(11) (Sept. 13, 1999).						
Examiner					Date Considered 11/29/06			
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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. 5625/D01/JB		Serial No. 10/731,651	
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Examiner Unknown								
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A94	6,001,669	12/14/99	Gaines et al.	438	102	07/21/1992	
	A95	6,015,590	01/18/00	Suntola et al.	427	255.23	11/28/1995	
	A96	6,025,627	02/15/00	Forbes et al.	257	321	05/29/1998	
	A97	6,036,773	03/14/00	Wang et al.	117	97	03/27/1997	
	A98	6,042,652	03/28/00	Hyun et al.	118	719	09/07/1999	
	A99	6,043,177	03/28/00	Falconer et al.	502	4	01/21/1997	
	A100	6,124,158	09/26/00	Dautartas et al.	438	216	06/08/1999	
	A101	6,113,977	09/05/00	Soininen et al.	427	64	09/11/1997	
	A102	6,130,147	10/10/00	Major et al.	438	604	03/18/1997	
	A103	6,139,700	10/31/00	Kang et al.	204	192.17	09/30/1998	
	A104	6,174,377	01/16/2001	Doering, et al.	118	729	01/04/1999	
	A105	6,174,809	01/16/2001	Kang, et al.	438	682	12/15/1998	
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
	B28	60-065712 A	04/15/1985	JP	C01B	33/113		X
	B29	03-048421	03/01/1991	JP	H01L	21/302		X
	B30	03-286531	12/17/1991	JP	H01L	21/316		X
OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
	C13	Martensson, et al., "Atomic Layer Epitaxy of Copper on Tantalum", <i>Chemical Vapor Deposition</i> , 3(1) (Feb. 1, 1997), pp. 45-50.						
	C14	Ritala, et al. "Atomic Layer Epitaxy Growth of TiN Thin Films", <i>J. Electrochem. Soc.</i> , 142(8) (Aug. 1995), pp. 2731-737.						
	C15	Elers, et al., "NbC15 as a precursor in atomic layer epitaxy", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 468-474.						
Examiner					Date Considered 11/20/06			
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Examiner Unknown									
U.S. Patent Documents									
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate		
	A106	6,200,893	03/13/2001	Sneh	438	685	03/11/1998		
	A107	6,203,613	03/20/2001	Gates, et al.	117	104	10/19/1999		
	A108	6,207,302	03/27/2001	Sugiura, et al.	428	690	03/02/1998		
	A109	6,248,605	06/19/2001	Harkonen, et al.	438	29	06/02/1999		
	A110	6,270,572	08/07/2001	Kim, et al.	117	93	08/09/1999		
	A111	6,287,965	09/11/2001	Kang, et al.	438	648	02/23/2000		
	A112	6,291,876	09/18/2001	Stumborg, et al.	257	632	08/20/1998		
	A113	6,305,314	10/23/2001	Sneh, et al.	118	723 R	12/17/1999		
	A114	6,306,216	10/23/2001	Kim, et al.	118	725	07/12/2000		
	A115	6,316,098	11/13/2001	Yitzchaik, et al.	428	339	03/23/1999		
	A116	2001/0000866	05/10/2001	Sneh, et al.	118	723 R	11/29/2000		
	A117	2001/0009140	07/26/2001	Bondestam, et al.	118	725	01/25/2001		
	Foreign Patent Documents								
	*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
		B31	04-031396 A	02/03/1992	JP	C30B	25/14	<input checked="" type="checkbox"/>	X
		B32	06-291048	10/18/1994	JP	H01L	21/205	<input checked="" type="checkbox"/>	X
		B33	08-264530	10/11/1996	JP	H01L	21/3205	<input checked="" type="checkbox"/>	X
B34		11-269652	10/05/1999	JP	C23C	16/44	<input checked="" type="checkbox"/>	X	
OTHER ART									
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.							
	C16	Lee, "The Preparation of Titanium-Based Thin Film by CVD Using Titanium Chlorides as Precursors", <i>Chemical Vapor Deposition</i> , 5(2) (Mar. 1999), pp. 69-73.							
	C17	Martensson, et al., "Atomic Layer Epitaxy of Copper, Growth & Selectivity in the Cu (II)-2,2,6,6-Tetramethyl-3, 5-Heptanedion ATE/H2 Process", <i>J. Electrochem. Soc.</i> , 145(8) (Aug. 1998), pp. 2926-2931.							
Examiner 					Date Considered 11/20/06				
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Examiner Unknown								
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
AS	A118	2001/0011526	08/09/2001	Doering, et al.	118	729	01/16/2001	
AS	A119	2001/0031562	10/18/2001	Raaijmakers, et al.	438	770	02/22/2001	
	A120	2001/0034123	10/25/2001	Jeon, et al.	438	643	04/06/2001	
	A121							
	A122							
	A123							
Foreign Patent Documents								
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AS	B35	2001-62244	03/13/2001	JP	B01D	53/34	X	
	B36	198 20 147	07/01/1999	DE	H01L	21/3205	X	
	B37	196:27 017	01/09/1997	DE	H01L	21/283	X	
	B38	2 626 110	07/21/1989	FR	H01L	39/24	X	
	B39	2 692 597	12/24/1993	FR	C23C	16/00	X	
	B40	2 355 727A	05/02/2001	GB	C23C	16/44	X	
OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
AS	C18	Min, et al., "Chemical Vapor Deposition of Ti-Si-N Films with Alternating Source Supply", <i>Mat., Res. Soc. Symp. Proc.</i> , Vol. 564 (Apr. 5, 1999), pp. 207-210						
	C19	Bedair, "Atomic layer epitaxy deposition processes", <i>J. Vac. Sci. Technol.</i> 12(1) (Jan/Feb 1994)						
	C20	Yamaga, et al., "Atomic layer epitaxy of ZnS by a new gas supplying system in a low-pressure metalorganic vapor phase epitaxy", <i>J. of Crystal Growth</i> 117 (1992), pp. 152-155						
	C21	Elam, et al., "Nucleation and growth during tungsten atomic layer deposition on SiO ₂ surfaces," <i>Thin Solid Films</i> 386 (2001) Pages 41 - 52, (Accepted Dec. 14, 2000).						
Examiner <i>Ande Stevens</i>					Date Considered <i>11/29/06</i>			
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